

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Elaborate outline of the environment *itemize* and enumerate with example.
17. Write a program to create a table spanning more than one page and distinguish the pros and cons of the tabbing and tabular environments.
18. Explain the step by step procedure to create the bibliographic database.
19. Discuss the various methods and commands used for displaying index in LaTeX.
20. Explain the process of generating footnotes, footnotes in tabular material and customizing footnotes into a LaTeX document and its style parameters.

APRIL/MAY 2025

**23PSMA26B — MATHEMATICAL
DOCUMENTATION USING LATEX OTHER
PACKAGES (SEC I)**

Time : Three hours

Maximum : 75 marks



SECTION A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. What command is used to define the format of page numbers? List the potential arguments and describe the resulting styles produced by the command.
2. Outline any four BIBTEX styles with a brief explanation.
3. Write down the commands which offers to set up a glossary with a short explanation.
4. Write the general form of an environment in LaTeX.
5. What are the ways of creating lists?

6. Compose the syntax for including graphics in a LaTeX document and outline the options accessible within the command.
7. Illustrate styles to typeset mathematics with examples for each style.
8. Examine the convenient way for the reader to provide the page number of the reference when making a reference to a table or an equation.
9. Recall the style parameters for marginal notes.
10. Discuss the command new theorem with an appropriate example

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Summarize the features of latex which helps to partition a document.

Or

- (b) Summarize the features of page style in LaTeX document.

12. (a) Explain the ways of creating lists in LaTeX with appropriate examples.

Or

- (b) How to typeset a quotation with several lines and poetry in a LaTeX document?

13. (a) Demonstrate the usage of commands like `\=`, `\>` and `\kill` in tabbing environment with examples.

Or

- (b) How to build our own commands using the available commands?

14. (a) Explain about four types of LR boxes.

Or

- (b) Elucidate the advantages provided by *varioref* package for enhanced cross-referencing in LaTeX documents.

15. (a) How is the footnote for the document is included in LaTeX for better enhancement of the document?

Or

- (b) Which command typesets the text given as an argument in the margin? Discuss its uses and style parameters.

